## STATE OF ILLINOIS Various Routes OVD SIN STR REP & REPL 2008-9 DEPARTMENT OF TRANSPORTATION Various Counties Sheet 41 of 105 Contract Number 44973 10 Ga. stainless steel or hot dip galvanized carbon steel - 3". typ. See Detail A Axis of HANDHOLE COVER R" & hole 2" \phi anchor rods See Detail D on SUGGESTED POSITIONING PLATE Base Sheet OSC-A-3. Bott Circle 24" O.D. Pipe 1'-6" 1'-6" 125 lb./ft. 0.500" wall For UT. grind top of rod square and smooth before galvanizing. 3'-0" (For Type II-C-A Utilize positioning plate and temporary nuts with leveling nuts or other Engineer approved and III-C-A < 35') Drill & tap SECTION A-A methods to maintain anchor bolts' alignment for 4" - 20 screws. during concrete placement. Plate, extra nuts 24" O.D. Pipe Chase thread 330 and other positioning aids become Contractor's max.) Type II-C-A max.) Type III-C-A 171 lb./ ft. after galvanizing. property. Cost included in Drilled Shaft 0.688" Wall (For Type III-C-A Concrete Foundations. > 35' to 40') Protect threads during concreting with 34" Rib tape, sleeves, or other means. Plate, typ. 3<sub>4</sub>" x 2" flat \*\*\* 18" is minimum to be galvanized. bar frame\* H (23'-0"; 1 Entire rod may be galvanized at MT 25% > 56 Contractor's option. 4" x 12", min. Continuous backing rina 12" R All Thread = NC (National Coarse) 24" Base Plate Provide 8" x 412" cover. Outside corners = 24" radius. Provide 4-56" \$\phi\$ holes in cover for 4" - 20 round head Provide 1 uncoated nut per rod. hot dip galvanized or stainless steel Bottom of Base Plate Deform thread or use chemical <u>E</u> Handhole machine screws. (See cover details.) thread lock to secure. Top of Anchor rods ← Detail B 0 Top of Foundation DETAIL A SECTION B-B B Alma A ANCHOR ROD DETAIL Bent bars may be butt welded top and bottom or bottom only. In lieu of fabricated handhole Anchor rods shall conform to AASHTO M314 Grade 105 and meet Charpy V-Notch (CVN) energy of 15 lb.-ft. at 10° F, before galvanizing. Galvanize the upper 18" (minimum\*\*\*) and associated M291, Grade A. 234" (±14") gap -3½" Stainless Steel Std. frame as shown, may cut from 2" plate (rolling Gr. Wire Cloth, 4" max. direction vertical). All cut faces to be ground C or DH heavy hex nuts and hardened washers per AASHTO M232. opening with minimum wire to ANSI Roughness of 500 min or less. 3" ¢ Galvanized steel conduit Thread and cap both ends diameter of AWG No. 16 No welding shall be permitted on rods. Provide an unfinished nut at Butt welded joint in post is only allowed for post heights (H) over 20 ft. in length. If used, weld bottom, a hexagon locknut and washer above base plate and a leveling with 2" lop. Secure with nut and washer below base plate. Nuts shall each be tightened with UT 25%> 34" stainless steel banding 200 lb.-ft. minimum torque against base plate. Before or after after anchor bolt nuts are procedure must be preapproved by Engineer and threading, but before galvanizing, each anchor rod shall be ultrasonically tested (UT) by a Level II or III inspector, qualified in accord with fully tightened. joint shall receive 100% RT or UT (tension criteria) at Contractor's expense. 4" x 1", min. ANSI guidelines, using a straight beam, 12" \$ 3.5 mhz, transducer, to Continuous backing ring -6" 1 | | | | | | | insure no rejectable flaws exist in the upper 18" (tension criteria). Clip heel of ribs Tack weld only Cost of testing included in Drilled Shaft Concrete Foundations. in root area Structure Station of final weld ₽₽₽₽₽₽ For Foundation Details **####** 2C1011090R024.7 48 + 30 see Base Sheet OSC-A-9. 20'-11 1/2 3'-6" ø CANTILEVER SIGN STRUCTURES 3'-6" ø TYPE II-C-A & III-C-A TRUSS SUPPORT POST DETAIL B FRONT ELEVATION SIDE ELEVATION (Typical rib) ALUMINUM TRUSS & STEEL POST NUMBER REVISION DATE DESIGNED -EXAMINED District 2 CHECKED -Overhead Sign Structure PASSED DRAWN Repair & Replacement CINEER OF BRIDGES AND STRUCTURES CHECKED Note: "H" based on 15'-0" or actual sign height, whichever is greater. OSC-A-5 6/01/2007